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JP11043460A 19990216 FullText

Title: (ENG) PHENYL-SUBSTITUTED HYDROXYCYCLOPENTENONE ANALOGUE

Abstract: (ENG)

PROBLEM TO BE SOLVED: To obtain the subject new compound having osteogenesis promoting activity.

SOLUTION: This new compound is shown by formula I [R1is a halogen, etc.; R2is a group of the formula (CH2)qY2rR5(Y2is O, etc.; R5 is H, etc.; (r) is 0 or 1; (q) is 0-5); X is H, etc.], e.g. (4R*,5R*)-4- hydroxy-4-(4-methoxy-1- butyl)-5-[2-(3methoxycarbonyl-1- propyl)phenyl]-2- cyclopenten-1-one. The compound of formula I is obtained by the following process: furan is lithiated and then reacted with a compound of formula II (R6is a halogen) to form a compound, which is then rearranged, followed by protecting the hydroxyl compound of form a compound of formula III (R7is an OH-protecting group), and an organic borane compound corresponding to R1is reacted with the compound of formula III in the presence of a base and a Pd catalyst to form a compound, which is then reacted with an organolithium reagent followed by purification to form a compound of formula IV (X2is H, etc.), whose hydroxyl group is then deprotected and oxidized.

Application Number: JP 20184197 A Application (Filing) Date: 19970728 Priority Data: JP 20184197 19970728 A X;

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IPC (International Class): C07C049753; A61K03112; A61K031215; C07C05982; C07C05990; C07C069738; C07C32322; C07C32352

Other Abstracts for Family Members: CHEMABS130(17)218312C; DERABS

C1999-198999

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